

Permit to Operate

FACILITY: C-1820

EXPIRATION DATE: 11/30/200

LEGAL OWNER OR OPERATOR: RIO BRAVO FRESNO

MAILING ADDRESS: 3350 S WILLOW AVE
FRESNO, CA 93725

FACILITY LOCATION: 3350 S WILLOW AVE
FRESNO, CA 93725

FACILITY DESCRIPTION: ELECTRICAL SERVICES COGENERATION

The Facility to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

The Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

DAVID L. CROW

Executive Director / APCO

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Director of Permit Services

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-0-1

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

PERMIT UNIT REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rule 110 (Fresno)], [Federally Enforceable Through Title V]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rule 110 (Fresno)], [Federally Enforceable Through Title V]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0], [Federally Enforceable Through Title V]
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020. [District Rule 2010, 3.0 and 4.0; 2020; and County Rule 201 (Fresno)], [Federally Enforceable Through Title V]
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1], [Federally Enforceable Through Title V]
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031], [Federally Enforceable Through Title V]
7. Every application for a permit required under Rule 2010 (Permits Required) shall be filed in a manner and form prescribed by the District. [District Rule 2040], [Federally Enforceable Through Title V]
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.5.1], [Federally Enforceable Through Title V]
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.5.2], [Federally Enforceable Through Title V]
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.6.1], [Federally Enforceable Through Title V]
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520. [District Rules 2520, 9.6.2 and 1100, 7.0], [Federally Enforceable Through Title V]
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.8], [Federally Enforceable Through Title V]

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13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.9.2], [Federally Enforceable Through Title V]
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.9.3], [Federally Enforceable Through Title V]
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.9.4], [Federally Enforceable Through Title V]
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.9.5], [Federally Enforceable Through Title V]
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.10], [Federally Enforceable Through Title V]
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.14.2.1], [Federally Enforceable Through Title V]
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.14.2.2], [Federally Enforceable Through Title V]
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.14.2.3], [Federally Enforceable Through Title V]
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.14.2.4], [Federally Enforceable Through Title V]
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101, by using EPA method 9. If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rule 401 (Fresno)], [Federally Enforceable Through Title V]
23. No person shall supply, sell, solicit or apply any architectural coating, except specialty coatings, that contains more than 250 grams of VOC per liter of coating (less water and exempt compounds, and excluding any colorant added to tint bases), or manufacture, blend, or repackage such coating with more than 250 grams of VOC per liter (less water and exempt compounds, and excluding any colorant added to tint bases) for use within the District. [District Rule 4601, 5.1], [Federally Enforceable Through Title V]
24. No person shall apply, sell, solicit, or offer for sale any specialty architectural coating listed in the Table of Standards (District Rule 4601, Table 1), nor manufacture, blend, or repackage such coating for use within the District, which contains VOCs (less water and exempt compounds, excluding any colorant added to tint bases) in excess of the specified limits listed in Table 1 of Rule 4601. [District Rule 4601, 5.2], [Federally Enforceable Through Title V]
25. All VOC-containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained or repaired. [District Rule 4601, 5.4], [Federally Enforceable Through Title V]
26. A person shall not use VOCs for the cleanup of spray equipment unless equipment for collection of the cleaning compounds and minimizing its evaporation to the atmosphere is used. [District Rule 4601, 5.5], [Federally Enforceable Through Title V]
27. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.2. [District Rule 4601, 6.1 and 6.2], [Federally Enforceable Through Title V]
28. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official [District Rule 2520, 9.14.1 and 10.0], [Federally Enforceable Through Title V]
29. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F], [Federally Enforceable Through Title V]
30. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B], [Federally Enforceable Through Title V]

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31. Disturbances of soil related to any construction, demolition, excavation, extraction, or water mining activities shall comply with the requirements for fugitive dust control in SJVUAPCD District Rule 8020 unless specifically exempted under section 4 of Rule 8020. [District Rule 8020], [Federally Enforceable Through Title V]
32. Outdoor handling and storage of any bulk material which emits dust shall comply with the requirements of SJVUAPCD Rule 8030, unless specifically exempted under section 4 of Rule 8030. [District Rule 8030], [Federally Enforceable Through Title V]
33. Any paved road over 3 miles in length, and any unpaved roads over half a mile in length, constructed after December 10, 1993 shall use the design criteria and dust control measures of, and comply with the administrative requirements of, SJVUAPCD Rule 8060 unless specifically exempted under section 4 of Rule 8060. [District Rule 8060], [Federally Enforceable Through Title V]
34. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M], [Federally Enforceable Through Title V]
35. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.17], [Federally Enforceable Through Title V]
36. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2], [Federally Enforceable Through Title V]
37. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permit shall apply. [District Rule 2520, 9.1.1], [Federally Enforceable Through Title V]
38. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
39. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2 or 3 when mandated by the regulation. [40 CFR 68], [Federally Enforceable Through Title V]

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-1-7

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

ONE 352 MMBTU/HR CIRCULATING FLUIDIZED-BED BIOMASS COMBUSTOR USED TO PRODUCE STEAM FOR ELECTRICAL POWER GENERATION (28.5 MW).EQUIPMENT INCLUDES (1) COOLING TOWER, (1) AIR PREHEATER, (1) BARETUBE ECONOMIZER, (2) 900 HP FANS & (1) 700 HP FAN.

PERMIT UNIT REQUIREMENTS

1. The fuel consumption in the fluidized bed combustor shall not exceed 36 tons at 30% moisture in any one hour. [District NSR Rule], [Federally Enforceable Through Title V]
2. Records of all daily fuel consumption shall be maintained on site and submitted to the District with quarterly reports and upon request. [District NSR Rule, District Rule 4352 and 40 CFR 60.49b(d)], [Federally Enforceable Through Title V]
3. A Continuous Emissions Monitoring System shall be in place and operating whenever the facility is operating. NOx (as NO2 corrected to 3% O2), opacity and CO concentrations must be recorded continuously. [District Rule 4352 and 40 CFR 60.48b(a)], [Federally Enforceable Through Title V]
4. The continuous monitoring equipment must be linked to a data logger which is compatible with the District's data acquisition system. [District Rule 1080], [Federally Enforceable Through Title V]
5. Ammonia shall be injected into the fluidized bed combustor as necessary to meet the limits in these conditions and whenever the combustor is in full operation. [District NSR Rule], [Federally Enforceable Through Title V]
6. Daily summaries of continuous monitoring records for each calendar quarter shall be submitted to the District within 30 days of the end of the calendar quarter. [District Rule 1080 and 40 CFR 60.49b(f)], [Federally Enforceable Through Title V]
7. A report shall be submitted within 30 days of the end of each calendar quarter identifying the time and date of each exceedance of emissions limits, the excess emissions generated and any conversion factors used to calculate excess emissions. [District Rule 1080], [Federally Enforceable Through Title V]
8. The quarterly report shall identify each period of excess emissions that occurs during startups, shutdowns, or malfunctions. The nature and cause of each malfunction, corrective action taken, and preventive measures adopted shall also be reported. [District Rule 1080 and 40 CFR 60.49b(h)], [Federally Enforceable Through Title V]
9. Operation and calibration of the continuous monitoring system shall be in accordance with the requirements of 40 CFR part 60.334(a), (b). [40 CFR 60 and District Rule 1080, 4.0], [Federally Enforceable Through Title V]
10. The PM10 emissions from the exhaust of the electrostatic precipitator shall not exceed 5.8 lb/hour nor 139 lb/day. [District Rule 4301, District NSR Rule and 40 CFR 60.43b(c)], [Federally Enforceable Through Title V]
11. The SOx emissions (calculated as SO2) from the exhaust of the fluidized bed combustor shall not exceed 10.0 lb/hour nor 240 lb/day. [District NSR Rule, District Rule 4301], [Federally Enforceable Through Title V]
12. The NOx emissions (measured as NO2) from the exhaust of the fluidized bed combustor shall not exceed 0.08 lb/MMBTU, 27.5 lb/hour, 660 lb/day, nor 110 tons per year. [District NSR Rule, District Rules 4352 and 4301], [Federally Enforceable Through Title V]
13. The carbon monoxide emissions from the fluidized bed combustor shall not exceed 22 lb/hour, 528 lb/day, nor 46 tons/year. [District NSR Rule and District Rule 4352], [Federally Enforceable Through Title V]
14. The VOC emissions from the exhaust of the fluidized bed combustor shall not exceed 10.4 lb/hour nor 250 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
15. The concentration of PM10 in the exhaust from the electrostatic precipitator shall not exceed 0.010 gr/dscf corrected to 12% CO2. [District NSR Rule and District Rule 4201], [Federally Enforceable Through Title V]
16. The concentration of ammonia in the exhaust of the fluidized bed combustor shall not exceed 25 ppmv at 3% O2. [District NSR Rule], [Federally Enforceable Through Title V]
17. The electrostatic precipitator shall be operated in a manner so as to minimize the emissions of particulate matter whenever the fluidized bed combustor is fired. [District NSR Rule], [Federally Enforceable Through Title V]

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18. Only alfalfa, barley, beanstraw, corn, orchard prunings, vineyard prunings, oats, wheat, and forest residues shall be used as offset creditable fuels. [District NSR Rule], [Federally Enforceable Through Title V]
19. Only grape stems, grape pumice, almond shells, walnut shells, construction wood waste and urban wood waste shall be used as non-creditable fuels. [District NSR Rule], [Federally Enforceable Through Title V]
20. The NOx emission factor used to calculate emission offset credits for orchard and vineyard wastes shall be 4.3 lb NOx per ton, for forest residue shall be 4.0 lb NOx per ton and for all other permitted agricultural wastes shall be 4.26 lb NOx per ton. [District NSR Rule], [Federally Enforceable Through Title V]
21. The owner/operator shall maintain records of the type, quantity, and blend of all biomass received and used on a daily basis and of the certifications that the biomass has historically been burned in the San Joaquin Valley air basin. [District NSR Rule], [Federally Enforceable Through Title V]
22. The owner/operator shall verify all emissions and related data and make the verifications available upon request. [District NSR Rule], [Federally Enforceable Through Title V]
23. The owner/operator shall provide certification for all fuel which is assigned offset credit. [District NSR Rule], [Federally Enforceable Through Title V]
24. The owner/operator shall submit written contracts between the owner/operator and all fuel suppliers annually to the District for approval. [District NSR Rule], [Federally Enforceable Through Title V]
25. Agreements between each fuel supplier and the owner/operator shall be considered as part of the permit to operate after District approval. [District NSR Rule], [Federally Enforceable Through Title V]
26. The owner/operator shall be responsible for ensuring that emission credits are properly evaluated according to the provisions of the agreements with fuel suppliers. [District NSR Rule], [Federally Enforceable Through Title V]
27. The owner/operator shall project and use the proper mix of fuels to ensure that all emissions are offset as required with credits from the use of creditable fuels. [District NSR Rule], [Federally Enforceable Through Title V]
28. The emission credits for the use of creditable fuels shall be calculated using the protocol approved in the District's December 9, 1999 correspondence to the facility. [District NSR Rule], [Federally Enforceable Through Title V]
29. The mass ratio of creditable biomass fuel to total biomass fuel shall not be less than 0.48. [District NSR Rule], [Federally Enforceable Through Title V]
30. The owner operator shall curtail operation proportionately and notify the District whenever, due to changes in the quantity or quality of wastes supplied, the emissions exceed the offsets. [District NSR Rule], [Federally Enforceable Through Title V]
31. All fuels shall be burned on a first-in, first-out basis. Compliance with this condition shall be based on mixed fuel piles (first-mixed, first-burned). [District NSR Rule], [Federally Enforceable Through Title V]
32. Fuels shall not be painted, oiled or stained. [District NSR Rule], [Federally Enforceable Through Title V]
33. Source testing shall be conducted on an annual basis. Particulate shall be measured with CARB Modified Method 5; NOx shall be measured using CARB Method 7; SOx shall be measured using EPA Method 8. [District Rule 1081], [Federally Enforceable Through Title V]
34. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081], [Federally Enforceable Through Title V]
35. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
36. All equipment or systems installed or used to achieve compliance with the terms and conditions of this Title V permit shall be maintained in good working order and be operated as efficiently as possible to minimize air pollution emissions. [District NSR Rule], [Federally Enforceable Through Title V]
37. The net electrical power output shall not exceed 28.5 MW. [District NSR Rule], [Federally Enforceable Through Title V]
38. Natural gas, butane, and propane may be used as start-up fuel and combustion stabilization purposes only. [District NSR Rule], [Federally Enforceable Through Title V]
39. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
40. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Fresno County Rule 406], [Federally Enforceable Through Title V]

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41. Results of continuous emissions monitoring must be reduced according to the procedure established in 40 CFR, Part 51, Appendix P, paragraphs 5.0 through 5.3.3, or by other methods deemed equivalent by mutual agreement with the District, the ARB, and the EPA. [District Rule 1080; Fresno County Rule 108], [Federally Enforceable Through Title V]
42. A violation of NOx emission standards indicated by the NOx CEMS shall be reported by the operator to the APCO within 96 hours. [District Rule 1080; Fresno County Rule 108], [Federally Enforceable Through Title V]
43. Operator shall notify the APCO no later than eight hours after the detection of a breakdown of the CEMS. Operator shall inform the APCO of the intent to shut down the CEMS at least 24 hours prior to the event. [District Rule 1080; Fresno County Rule 108], [Federally Enforceable Through Title V]
44. Carbon monoxide emissions from the exhaust of the fluidized bed combustor shall not exceed 400 ppmv at 3% O₂, or 310 ppmv at 7% O₂, or 310 ppmv at 12% CO₂. [District Rule 4352, 5.3], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-2-3

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

BIOMASS FUEL RECEIVING AND UNLOADING OPERATION CONSISTING OF TWO 10'X70' TILTING LIFT PLATFORMS WITH TELESCOPING HYDRAULIC CYLINDERS FOR DUMPING INTO A RECEIVING HOPPER OF 5000 CU.FT CAPACITY. RATING: 365 HP.

PERMIT UNIT REQUIREMENTS

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1. Fugitive emissions from all fuel transfer points shall be controlled to prevent excessive dust during operation. [District NSR Rule], [Federally Enforceable Through Title V]
 2. Fogging dust controls shall be operated at all times when handling any fuels. [District NSR Rule], [Federally Enforceable Through Title V]
 3. All conveyor covers shall be maintained securely in place and without leakage. [District NSR Rule], [Federally Enforceable Through Title V]
 4. Operator shall maintain windscreen to prevent fugitive dust from storage piles. All screens shall be repaired within 24 hours. [District NSR Rule], [Federally Enforceable Through Title V]
 5. Biomass fuel receiving rate shall not exceed 2,031 ton/day. [District NSR Rule], [Federally Enforceable Through Title V]
 6. Emissions shall not exceed 0.1 lbPM10/ton. [District NSR Rule], [Federally Enforceable Through Title V]
 7. Combined emissions from C-1820-2 and C-1820-10 shall not exceed 203.1 lb PM10/day. [District NSR Rule], [Federally Enforceable Through Title V]
 8. Records of fuel received and combined daily emissions calculations for C-1820-2 and C-1820-10 shall be maintained and made readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
 9. Visible emissions from each transfer point shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If excessive visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
 10. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

Initial TV Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-3-2

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

FUEL HANDLING SYSTEM CONSISTING OF COLLECTING BELT CONVEYOR, STACKER CONVEYOR, STORAGE, OVERPILE AND UNDERPILE RECLAIMERS, RECLAIM TRANSFER(CHAIN & BELT CONVEYOR, SELF CLEANING MAGNET, SCREEN CONVEYOR, SHREDDER, FEED CONVEYOR & BIN). RATING: 295 HP

PERMIT UNIT REQUIREMENTS

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1. Fugitive emissions from all fuel transfer points and storage piles shall be controlled to prevent excessive dust during operation. [District NSR Rule], [Federally Enforceable Through Title V]
 2. Visible emission from each transfer point shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If excessive visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
 3. Records of system maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

Initial TV Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-4-1

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

ONE MULTICLONE MECHANICAL DUST COLLECTOR.

PERMIT UNIT REQUIREMENTS

1. The particulate matter concentration exiting the multicclone shall not exceed 0.5 grains/dscf at 12% CO₂. [District NSR Rule], [Federally Enforceable Through Title V]
2. Multicclone collector shall be strictly maintained at all times. [District NSR Rule], [Federally Enforceable Through Title V]
3. At no time shall the emissions passing through the multicclone be allowed to bypass the electrostatic precipitator. [District NSR Rule], [Federally Enforceable Through Title V]

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San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-5-1

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

ONE 238 KVA RESEARCH COTTREL ELECTROSTATIC PRECIPITATOR EXHAUSTING TO ONE 147 FEET HIGH BY 8 FEET DIAMETER CARBON STEEL STACK.

PERMIT UNIT REQUIREMENTS

1. Particulate matter concentration shall not exceed 0.010 grains/dscf corrected at 12% CO₂. [District NSR Rule], [Federally Enforceable Through Title V]
2. Electrostatic Precipitator shall be strictly maintained at all times. [District NSR Rule], [Federally Enforceable Through Title V]
3. The precipitator automatic rapping system is to be operated to maximize collection efficiency including only one rapping position to be energized at any one time to minimize dust re-entrainment. [District NSR Rule], [Federally Enforceable Through Title V]
4. All fields shall be operated at all times. [District NSR Rule], [Federally Enforceable Through Title V]
5. Voltage shall be maintained between 40 and 60 kilovolts at each cell. [District NSR Rule], [Federally Enforceable Through Title V]
6. Amperage shall not exceed 0.80 at each cell. [District NSR Rule], [Federally Enforceable Through Title V]
7. Records shall be maintained on the quality and accuracy of all instruments used to verify compliance with the terms and conditions of the Permit to Operate and District regulations. [District NSR Rule], [Federally Enforceable Through Title V]
8. Source testing shall be required annually or as often as deemed necessary by the Air Pollution Control District. [District NSR Rule], [Federally Enforceable Through Title V]
9. Each cell voltage and amperage shall be checked and recorded on a daily basis. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

Initial TV Permit

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-6-1

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

ASH COLLECTION SYSTEM: CONVEYOR DESIGN WHICH COLLECTS ASH FROM THE BOILER, AIR HEATER, AND AIR POLLUTION CONTROL SYSTEM. IT IS EQUIPPED WITH A WET MIXER AND CAN HANDLE APPROX. 45 TONS/DAY. EMISSIONS ARE CONTROLLED BY A BAG FILTER. RATING: 15,000 GAL.

PERMIT UNIT REQUIREMENTS

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1. Fugitive emissions from all fuel transfer points and storage piles shall be controlled to prevent excessive dust during operation. [District NSR Rule], [Federally Enforceable Through Title V]
 2. Particulate matter emissions from any single source operation shall be no more than 0.10 grain/scf. [District Rule 4201], [Federally Enforceable Through Title V]
 3. Dust collector filters shall be inspected quarterly while in operation for evidence of particulate matter breakthrough and replaced as needed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
 4. Dust collector filters shall be inspected quarterly while not in operation for tears, scuffs, abrasions or holes which might interfere with the PM collection efficiency and shall be replaced as needed. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
 5. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
 6. Visible emissions from all ash transfer points shall be checked quarterly. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If excessive visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

Initial TV Permit
San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: C-1820-7-0

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

EXXON THERMAL DENOX SYSTEM FOR BIOMASS COMBUSTOR: ONE 12,000 GALLON AMMONIA STORAGE TANK; NH3 SUPPLY SYSTEM (ELECTRIC VAPORIZER); AIR SUPPLY SYSTEM; INJECTION NOZZLE SYSTEM AND PROCESS CONTROL SYSTEM. RATING: 12,000 GALLONS.

PERMIT UNIT REQUIREMENTS

1. NOX emission rate shall not exceed: 27.5 lbs/hr with a total not to exceed 110 tons/yr; 0.08lbs/MM BTU. []
2. Air flowrate, ammonia injection flowrate and NOx emissions are to be continuously monitored and recorded. Malfunctions in the monitoring equipment shall be reported to the District and data from all monitors shall be reported quarterly. []
3. Ammonia injection rate shall be maintained as to achieve optimal emission reduction. []
4. This Permit to Operate is subject to Federal EPA review and enforcement where emission offsets have not been provided pursuant to District Rules. []

Initial TV Permit

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-1820-8-1

EXPIRATION DATE: 11/30/2004

EQUIPMENT DESCRIPTION:

COOLING TOWER FOR ELECTRIC POWER PRODUCTION

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201], [Federally Enforceable Through Title V]
2. No compound containing hexavalent chromium shall be added to the cooling tower. [District Rule 4002], [Federally Enforceable Through Title V]
3. Records shall be maintained which show the composition of all substances added to the cooling tower. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

Initial TV Permit